

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 3957-8-DIV	SERIAL NO.	PTO 10/005797 11/02/01
	APPLICANT Micke et al.		
	FILING DATE Herewith	GROUP ART 3643	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
TP	AA	1,585,664	5/25/26	Gilman, G.H.	-	-	11/24/20
TP	AB	2,359,301	10/3/44	Church et al.	102	56	3/22/41
TP	AC	2,725,821	12/6/55	Coleman, H.W.	102	22	3/29/52
TP	AD	3,695,715	10/3/72	GODFREY	299	13	
TP	AE	3,721,471	3/20/73	Bergmann et al.	299	55	10/28/71
TP	AF	3,777,665	12/11/73	Ziemba	102	70.2P	8/3/72
TP	AG	3,788,230	1/29/74	Losfeld	102	74	1/22/70
TP	AH	3,963,275	6/15/76	GODFREY et al.	299	13	
TP	AI	4,388,868	6/21/83	Frostig	102	473	11/10/80
TP	AJ	4,406,430	9/27/83	KRAMMER et al.	244	3.13	
TP	AK	5,031,538	7/16/91	DUFRANE et al.	102	275.5	
TP	AL	5,081,929	1/21/92	Mertens	102	273	11/19/90
TP	AM	5,345,853	9/13/94	Crepin et al.	89	1.818	12/3/93
TP	AN	5,359,935	11/1/94	WILLETT	102	307	
TP	AO	5,365,913	11/22/94	WALTON	124	75	
TP	AP	5,404,820	4/11/95	HENDRIX	102	201	
TP	AQ	5,429,030	7/4/95	TIDMAN	89	7	
TP	AR	5,611,605	3/18/97	MCCARTHY	299	13	
TP	AS	5,731,538	3/24/98	O'BRIEN et al.	102	202.5	

EXAMINER <i>Thomas R. Lee</i>	DATE CONSIDERED 09-14-05
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
TP	AT	568.425	3/24/24	France	—	—		
TP	AU	EP 0 230 720 A2	8/5/87	EPO	—	—		
TP	AV	DE3533753	9/21/85	Germany (Abstract Only)	—	—		
TP	AW	DE 31 49 346	6/16/83	Germany	—	—		
TP	AX	EP 0 363 079 A2	4/11/90	EPO	—	—		
TP	AY	CA2015773	4/30/90	Canada (Abstract Only)	—	—		
TP	AZ	DE4226129-A	8/7/92	Germany (Abstract Only)	—	—		
TP	BA	EP-602632-A	12/18/92	EPO (Abstract Only)	—	—		
TP	BB	94 3791	5/30/94	South Africa	—	—		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

TP	BC	Society of Explosives Engineers, Inc. "Permissible Blasting/Underground Coal Mines," Chapter 26, Blaster's Handbook, 17th Ed. (1998)
TP	BD	Watson et al.; "DEMONSTRATION OF HIGH SPEED GUN AND PENETRATING CONE FRACTURE TECHNOLOGY"; Proposal to <u>Climax Molybdenum Company/Henderson Mine</u> ; October 1990; pp. 1-24.
TP	BE	Lundquist, R.; "UNDERGROUND TESTS OF THE REAM METHOD OF ROCK FRAGMENTATION FOR HIGH-SPEED TUNNELING"; <u>RETC Proceedings</u> ; Vol. 1; 1974; pp. 825-840.
TP	BF	Louie, M.; "QUASI-CONTINUOUS EXPLOSIVE CONCEPTS FOR HARD ROCK EXCAVATION"; Shock Hydrodynamics Division <u>Whittaker Corporation</u> ; June 1973; Final Report.
	BG	Singh, M.; "ROCK BREAKAGE BY PELLET IMPACT"; <u>IIT RESEARCH INSTITUTE</u> ; 12/24/69; Final Report.

EXAMINER <i>Thomas Fine</i>	DATE CONSIDERED 09-14-05
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/005,797
				Filing Date	November 2, 2001
				First Named Inventor	MICKE, BRIAN P.
				Art Unit	3843
				Examiner Name	Price, Richard Thomas Jr.
Sheet	1	of	1	Attorney Docket Number	3957-8-DIV

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.¹	Document Number Number-kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T²
		Country Code³	Number⁴, Kind Code⁵ (if known)				

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No.¹	
TP	1.	European Patent Office Communication issued in European Patent Application No. 98963757.5 dated April 11, 2005, 5 pages.

Examiner Signature	Thomas Price	Date Considered	09/14/2005
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SHEET 1 OF 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 3957-8-DIV	SERIAL NO. 10/005,797
	APPLICANT Micke et al.	
	FILING DATE November 2, 2001	GROUP ART 3643

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

TP	AA	Heuzé, Francois, "Rock mechanics contributions from defense programs," <u>Rock Mechanics</u> , pp. 3-26, Tillerson & Wawersik (eds), 1992, Balkema, Rotterdam.
TP	AB	Lownds, C.M., et al, "The performance testing of permitted explosives for coal mines," <u>Journal of the South African Institute of Mining and Metallurgy</u> , vol. 86, no. 10, pp. 415-423, October, 1986.
TP	AC	no author given, "Excavation of tunnels by the use of smooth-bore cannons to fire solid 10 lb concrete projectiles into the rock - REAM," <u>Tunnels and Tunnelling</u> , pp. 177-180, March, 1973.

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EXAMINER <i>Thomas Rice</i>	DATE CONSIDERED 09-14-05
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